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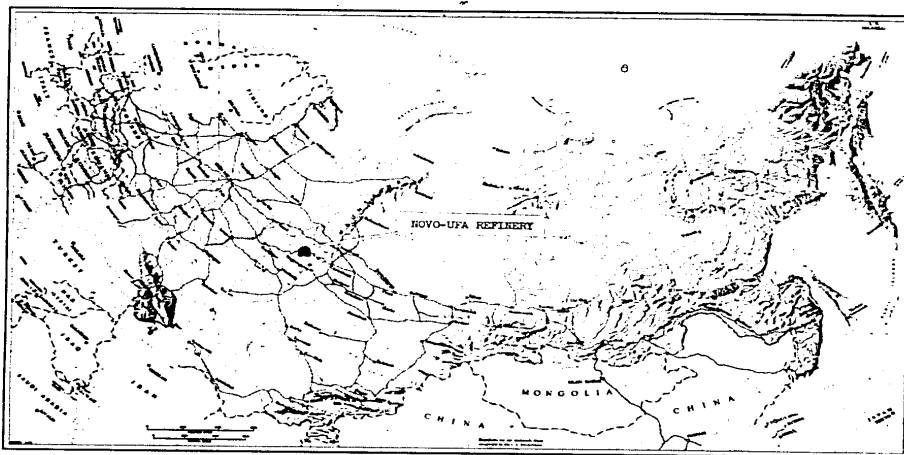
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~~TOP SECRET RUM~~

TCS No. 8273/65
IB No. 176/65

Declass Review by NIMA/DOD



CIA/PID/IB-P-494/65

PREPARED BY - CHEMICAL SECTION, INDUSTRIAL BRANCH,
PHOTOGRAPHIC INTELLIGENCE DIVISION, CIA

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TALENT-KEYHOLE
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TOP SECRET REF

TCS No. 8273/65
IB No. 176/65
12 May 1965
Copy No. 1

MEMORANDUM FOR: Chief, Resources Division, ORR

ATTENTION : [REDACTED] R/FU

25X1A

THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS

FROM : Chief, Photographic Intelligence Division, CIA

SUBJECT : Novo-Ufa Petroleum Refinery, USSR

REFERENCED : (1) ORR Requirement No. C-RR4-81,227
(2) CIA/PID Project No. 30392-4

1. This memorandum is forwarded in answer to the above mentioned requirement, which requested an analysis and comparative study of the Novo-Ufa Petroleum Refinery, located near Ufa, USSR.

2. Information, as requested, concerning this refinery, is as follows:

a. Location - Novo-Ufa Refinery is situated between the Staro-Ufa Refinery and the Chernikovsk Refinery, all of which are in the Chernikovsk sector of the Ufa region. It lies approximately 7.5 nautical miles NNE of the Ufa Airfield, along the Belaya River. The geographic coordinates of the approximate center of the refinery are 54 52 25N - 56 05 10E (See Figures 1 and 2).

b. Areal Extent - Novo-Ufa Refinery is irregular in shape, with maximum dimensions of approximately 12,000 feet by 5,500 feet on a general NNW-SSE orientation. The total area within the refinery fence line is approximately 52,000,000 square feet or about 1.9 square miles.

c. Construction Status - Examination of photographic coverage from the period of time covered by this study [REDACTED], 25X1D reveals that construction efforts were relatively light. Details concerning changes are discussed in part b of section 3.

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TCS No. 8273/65
Page 2

SUBJECT: Novo-Ufa Petroleum Refinery, USSR

This refinery appears to be basically complete as of the present time. Further expansion within the refinery itself, would be difficult due to the limitation of space. Extension of the refinery beyond its present boundaries would be limited to the relatively small area of level ground between the present fence line and the Belaya River or to the low lying land east of the refinery and north of the synthetic alcohol plant.

25X1D

25X1D

d. Photography - All available photographic coverage was utilized in this survey. For purposes of comparison and because of photographic quality, materials from three satellite missions are included with this memorandum.

(See Figures 3-6). Details concerning the identification of refinery components are presented in the following section.

3. Separate sections of the Novo-Ufa Refinery and other nearby features are annotated on the overlay to Figure 6 of this memorandum.

a. Analysis of the annotated areas is presented under the number corresponding to that one the overlay.

- (1) Open storage basins
- (2) Petrochemical plant
- (3) Staro-Ufa Refinery
- (4) Belaya River
- (5) Tank farm
- (6) Railyard with loading and unloading facilities, probable pumphouses, warehouses, and possible packaging buildings
- (7) Thermal power plant and associated facilities
- (8) Possible coking unit with supporting facilities (tankage, spray pond, etc.)
- (9) Area consisting mostly of water treatment, with cooling towers, spray and settling ponds, some tankage, and miscellaneous buildings.
- (10) Unidentified processing area
- (11) Unidentified refining units (two)
- (12) Possible reforming units (two)
- (13) Tank farm, probable intermediate and final product storage
- (14) Probable cracking units (four)
- (15) Probable crude distillation units (six)

TOP SECRET RUM

TCS No. 8273/65
Page 3

SUBJECT: Novo-Ufa Petroleum Refinery, USSR

- (16) Area of shop and maintenance buildings
- (17) Administration area
- (18) Probable desalting units (four)
- (19) Probable crude distillation units (four)
- (20) Area consisting mostly of water treatment with cooling towers, spray ponds, and settling ponds
- (21) Probable cracking units (three)
- (22) Tank farm, large area including probable crude and product storage
- (23) Probable gas recovery and fractionation area
- (24) Probable alkylation units (two)
- (25) Flare tower
- (26) Area in ravine consisting mostly of open ground, but with a flare tower and a gas holder
- (27) Cracking units (three)
- (28) Probable desalting units (three)
- (29) Tank farm, probably associated with lube oil area
- (30) Area with storage facilities, water cooling towers, and unidentified construction
- (31) Lubrication oil refining area, probably with deasphalting, solvent extraction, dewaxing, and other treating units
- (32) Tank farm
- (33) Probable desalting units (two)
- (34) Packaging and shipping area, with a rail car loading and unloading rack, and possible final processing units
- (35) Tank farm

b. The locations where significant construction has occurred during the period of time covered by this study are annotated with letters on the overlay sheet. A description of these changes, under the letter corresponding to that on the overlay, follows:

- 25X1D (a) Area of unidentified construction activity, with some tankage, excavation, and incomplete buildings - construction had started by [REDACTED] and was apparently still under way in the fall [REDACTED]
 - 25X1D (b) Small unidentified processing unit and several incomplete buildings - construction also started in this area in the spring of [REDACTED]
 - (c) A large shop type building and two probable warehouses were erected in this area between [REDACTED] [REDACTED]
- 25X1D

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TCS No. 8273/65
Page 4

SUBJECT: Novo-Ufa Petroleum Refinery, USSR

4. Adequate supporting facilities appear to be available for this refinery. It is served by a rail spur from the Trans-Siberian Line, by a well maintained road, by docking facilities on the adjacent Belaya River, and probably by pipelines. Heat and power are generated in a thermal power plant in the SE corner of the refinery property, and water apparently comes from the nearby river.

5. The Novo-Ufa Refinery was definitely operating throughout the period of time surveyed for this report. The power plant, various processing units and flare towers show some level of activity on all available coverage.

6. All measurements have been made by the CIA/PID/IB Project Analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

7. The photo analyst assigned to this project was Mr. [REDACTED] who may be contacted on extension 2546, should any questions arise concerning this memorandum. This memorandum and attachments complete the requirement.

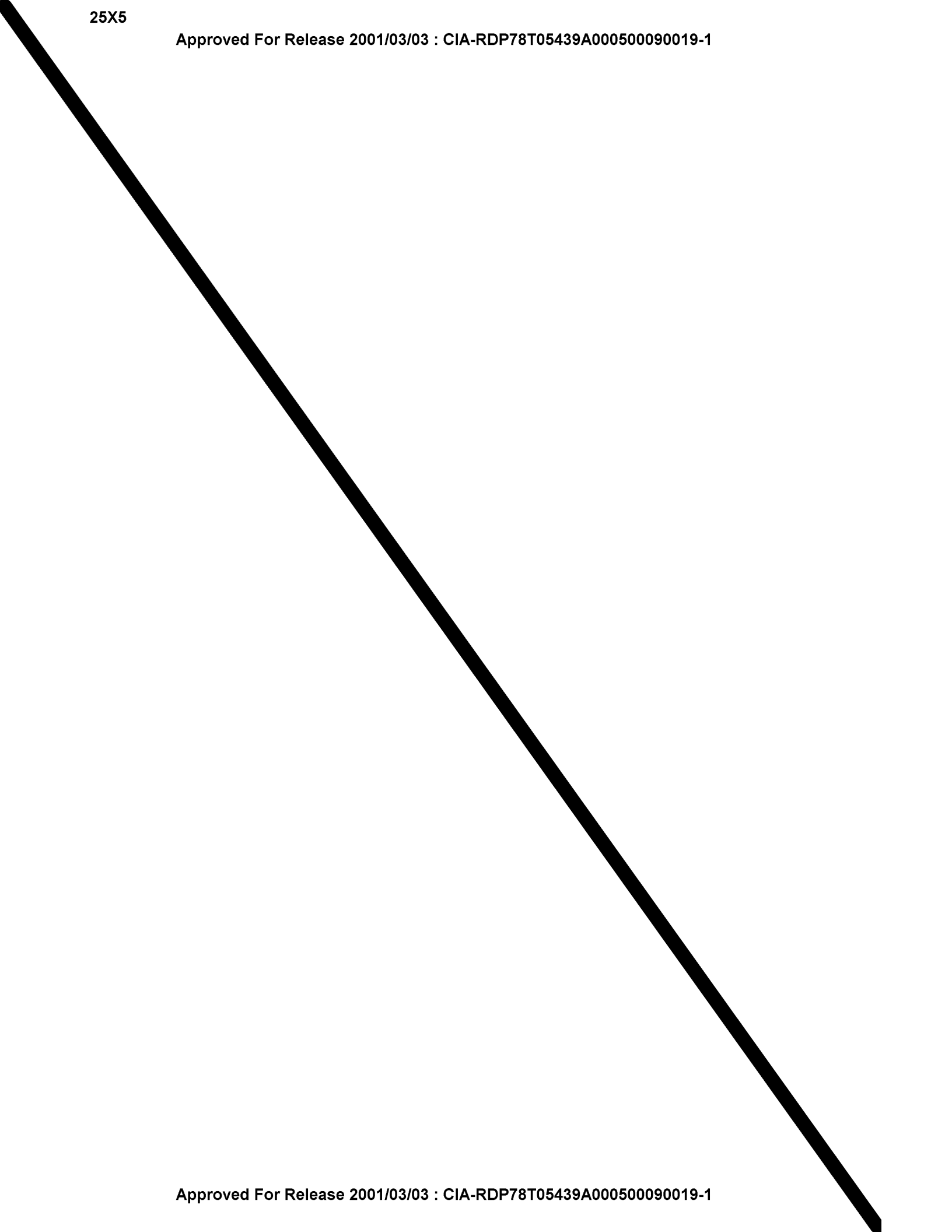
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ENCLOSURES:

- 2 Annotated Maps
(CIA/PID/IB-P-494/65 and P-495/65)
- 3 Annotated Photos
(CIA/PID/IB-P-496/65 thru P-498/65)
- 1 Annotated Photo w/overlay
(CIA/PID/IB-P-499/65)

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TCS No. 6273/65
IP No. 176/65

CHERNYSHEVSKIY REFINERY

PETROCHEMICAL PLANT

NOVO-UGA REFINERY

STARO-UGA REFINERY

NOVO-UGA REFINERY
Near Ufa, USSR
54° 50'N - 56° 00'E

25X1D

CLA/FID/IR-
P-446/65



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TOS RG. 8273/65
1E No. 176/65

UFA REFINERY COMPLEX
Near Ufa, USSR
54 52N - 56 05E

CIA/RID/IR-
P-497/65

25X1D

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TCS No. 8473/65
IB No. 176/65

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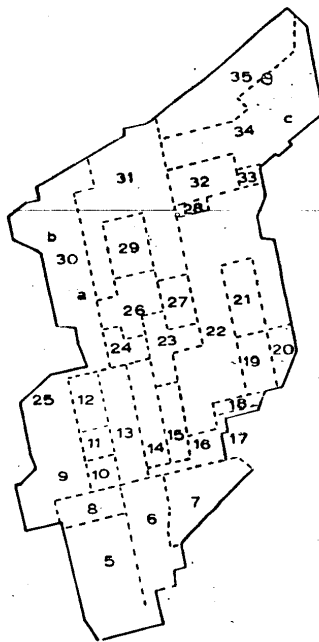
UFA REFINERY COMPLEX
Near Ufa, USSR
5+ SEN - 50 CSE

CIA/PIC/1B-
P-26/65

25X1D

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